

Algebra 2

Name: _____

Mrs. Britton

Section 7.4: Using Graphing Calculator to Find Roots Date: _____

Find all of the rational roots of each polynomial equation.

1. $x^3 + 3x^2 - 10x = 0$

2. $a^3 - 3x^2 - 10x + 24 = 0$

3. $y^3 - 17y = -y^2 - 15$

4. $a^3 - a^2 - 8a = -12$

5. $10a^2 + 2a^3 = 8a$

6. $-27y - 6y^2 + 3y^3 = -54$

7. $x^3 - 4x^2 - 37x + 40 = 0$

8. $x^3 + 3x^2 - 4x - 12 = 0$

9. $h^3 + 3h^2 - 9h = -5$

10. $x^3 + 7x^2 = 26x + 72$

11. $x^3 + x + 6 = 4x^2$

12. $x^3 - 9x^2 + 15x - 7 = 0$